

## WEST Search History

DATE: Wednesday, April 07, 2004

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L17	6197559.pn. and pyruvate	1
<input type="checkbox"/>	L16	L15 and l7	30
<input type="checkbox"/>	L15	poxb.ti. or poxb.ab.	41
<input type="checkbox"/>	L14	L12 and l11	6
<input type="checkbox"/>	L13	L12 nad l11	12818
<input type="checkbox"/>	L12	(enterobacteri\$ or coli or escherichia) same l7	2667
<input type="checkbox"/>	L11	L10 and l9	75
<input type="checkbox"/>	L10	l5 with (reduce or reduction or eliminat\$ or attenuat\$ or delet\$ or disable)	124
<input type="checkbox"/>	L9	L8 and (enterobacteri\$ or coli or escherichia)	651
<input type="checkbox"/>	L8	L7 and l5	687
<input type="checkbox"/>	L7	L6 with (produce or production or manufact\$ or isolat\$ or fermentation or prepare or preparation)	68458
<input type="checkbox"/>	L6	amino adj acid	232250
<input type="checkbox"/>	L5	pyruvate adj (dehydrogenase or oxidase)	1697
		<i>DB=PGPB; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L4	20030017554.pn. and \$express\$	1
<input type="checkbox"/>	L3	L2 and overexpress\$	0
<input type="checkbox"/>	L2	20030017554.pn.	1
		<i>DB=USPT; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L1	4278765.pn.	1

END OF SEARCH HISTORY

10/076416  
STN Search Summary

=> d his

FILE 'CAPLUS' ENTERED AT 14:34:43 ON 07 APR 2004

L1 6053 S PYRUVATE (2W) (OXIDASE OR DEHYDROGENASE)  
L2 612181 S AMINO (W) ACID  
L3 201594 S L2 (P) (PRODUC? OR ISOLAT? OR MANUFACTUR? OR FERMENT? OR PREP  
L4 377 S L1 AND L3  
L5 2145 S L1 (P) (ATTENUAT? OR ELIMINAT? OR DECREAS? OR DISABLE? OR RED  
L6 92 S L5 AND L3  
L7 33 S L6 AND (COLI OR ENTEROBACTER? OR ESHERICHIA)

=> d 1-33

L7 ANSWER 1 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:198192 CAPLUS  
TI Fermentative production of L-methionine with recombinant Coynebacterium glutamicum overexpressing gene metF  
IN Kroeger, Burkhard; Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan  
PATENT NO. KIND DATE APPLICATION NO. DATE  
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PI DE 10239308 A1 20040311 DE 2002-10239308 20020827  
WO 2004024931 A2 20040325 WO 2003-EP9451 20030826  
PRAI DE 2002-10239308 A 20020827

L7 ANSWER 3 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:38875 CAPLUS  
TI Exploring the overproduction of amino acids using the bilevel optimization framework OptKnock  
AU Pharkya, Priti; Burgard, Anthony P.; Maranas, Costas D.  
SO Biotechnology and Bioengineering (2003), 84(7), 887-899

L7 ANSWER 4 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:837302 CAPLUS  
TI Methionine synthase genes and bacteria for L-methionine production  
IN Kroeger, Burkhard; Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan  
PATENT NO. KIND DATE APPLICATION NO. DATE  
-----  
PI WO 2003087386 A2 20031023 WO 2003-EP4010 20030416  
DE 10217058 A1 20031127 DE 2002-10217058 20020417  
PRAI DE 2002-10217058 A 20020417

L7 ANSWER 5 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:492559 CAPLUS  
TI Process for fermentative prepn. of L-amino acids in coryneform bacteria with amplification of gnd gene and attenuation of poxB gene  
IN Dunican, L. K.; McCormack, Ashling; Stapelton, Cliona; Burke, Kevin; Mockel, Bettina  
PA Ire.  
SO U.S. Pat. Appl. Publ., 25 pp., Cont.-in-part of U.S. Ser. No. 531,265, abandoned.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003119154	A1	20030626	US 2002-78167	20020220
	US 2004063181	A1	20040401	US 2003-686736	20031017
PRAI	US 2000-531265	B2	20000320		
	US 2002-78167	A3	20020220		
L7	ANSWER 6 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN				
AN	2003:473143 CAPLUS				
TI	Fermentative production of L-lysine by Corynebacterium glutamicum strain with an attenuated citeE gene				
IN	Farwick, Mike; Huthmacher, Klaus; Marx, Achim; Bathe, Brigitte; Pfefferle, Walter				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003113879	A1	20030619	US 2001-770688	20010606
	US 2003157666	A1	20030821	US 2003-375355	20030228
PRAI	US 2001-770688	A3	20010606		
L7	ANSWER 7 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN				
AN	2003:454941 CAPLUS				
TI	Process for the fermentative preparation of L-amino acids with amplification of the tkt gene				
IN	Burke, Kevin; Dunican, L. K.; Duncian, Rita; McCormack, Ashling; Stapleton, Cliona; Mockel, Bettina; Thierbach, Georg				
PA	Ire.				
SO	U.S. Pat. Appl. Publ., 23 pp., Cont.-in-part of U.S. Ser. No. 986,649, abandoned.				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003109014	A1	20030612	US 2002-143856	20020514
PRAI	US 2000-528196	B2	20000317		
	US 2001-986649	B2	20011109		
L7	ANSWER 8 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN				
AN	2003:434740 CAPLUS				
TI	Biosynthetic preparation of non-aromatic L-amino acids in Enterobacteriaceae bacteria				
IN	Rieping, Mechthild				
PA	Degussa A.-G., Germany				
SO	PCT Int. Appl., 34 pp.				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003046184	A1	20030605	WO 2002-EP10792	20020926
	DE 10157721	A1	20030605	DE 2001-10157721	20011124
PRAI	DE 2001-10157721	A	20011124		
L7	ANSWER 9 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN				
AN	2003:133477 CAPLUS				
TI	Production of L-amino acids by Corynebacterium glutamicum strains with attenuated otsB, treY or treZ genes				
IN	Wolf, Andreas; Schischka, Natalie; Hermann, Thomas; Morbach, Susanne; Kraemer, Reinhard				

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003014370	A2	20030220	WO 2002-EP5264	20020514
	WO 2003014370	A3	20031211		
	DE 10139062	A1	20030430	DE 2001-10139062	20010809
	US 2003092139	A1	20030515	US 2002-212219	20020806
PRAI	DE 2001-10139062	A	20010809		
	US 2001-316276P	P	20010904		

L7 ANSWER 10 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:76954 CAPLUS  
TI Genetically modified Escherichia coli for the fermentative production of threonine containing an attenuated aceK gene  
IN Hermann, Thomas

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003008616	A2	20030130	WO 2002-EP7353	20020703
	WO 2003008616	A3	20030904		
	DE 10135051	A1	20030206	DE 2001-10135051	20010718
PRAI	DE 2001-10135051	A	20010718		
	US 2001-306867P	P	20010723		

L7 ANSWER 11 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:76942 CAPLUS  
TI Genetically modified Escherichia coli for the fermentative production of threonine containing an attenuated aceB gene  
IN Hermann, Thomas

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003008604	A2	20030130	WO 2002-EP7352	20020703
	WO 2003008604	A3	20031204		
	DE 10135051	A1	20030206	DE 2001-10135051	20010718
PRAI	DE 2001-10135051	A	20010718		
	US 2001-306867P	P	20010723		

L7 ANSWER 12 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:76941 CAPLUS  
TI Genetically modified Escherichia coli for the fermentative production of threonine containing an attenuated aspA gene  
IN Hermann, Thomas

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003008603	A2	20030130	WO 2002-EP7351	20020703
	WO 2003008603	A3	20030731		
	DE 10135051	A1	20030206	DE 2001-10135051	20010718
PRAI	DE 2001-10135051	A	20010718		
	US 2001-306867P	P	20010723		

L7 ANSWER 13 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2003:76940 CAPLUS  
DN 138:132150  
TI Genetically modified Escherichia coli for the fermentative production of threonine containing an attenuated ugpB gene  
IN Hermann, Thomas

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2003008602	A2	20030130	WO 2002-EP7350	20020703
	WO 2003008602	A3	20030731		
	DE 10135051	A1	20030206	DE 2001-10135051	20010718
PRAI	DE 2001-10135051	A	20010718		
	US 2001-306867P	P	20010723		

L7 ANSWER 14 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:793827 CAPLUS

DN 137:309605

TI Production of L-amino acids

Enterobacteriaceae strains containing an attenuated aceA gene

IN Rieping, Mechthild; Hermann, Thomas

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2002081722	A2	20021017	WO 2002-EP2421	20020306
	WO 2002081722	A3	20031030		
	DE 10116518	A1	20021017	DE 2001-10116518	20010403
	EP 1383905	A2	20040128	EP 2002-702397	20020306
	US 2003049803	A1	20030313	US 2002-114073	20020403
	US 2003054503	A1	20030320	US 2002-114043	20020403
	US 2003059903	A1	20030327	US 2002-114048	20020403
PRAI	DE 2001-10116518	A	20010403		
	US 2001-283384P	P	20010413		
	WO 2002-EP2421	W	20020306		

L7 ANSWER 15 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:793826 CAPLUS

TI Production of L-amino acids with

Enterobacteriaceae strains containing an attenuated dgsA gene

IN Rieping, Mechthild; Hermann, Thomas

PA Degussa A.-G., Germany

SO PCT Int. Appl., 33 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2002081721	A2	20021017	WO 2002-EP2419	20020306
	WO 2002081721	A3	20031030		
	DE 10116518	A1	20021017	DE 2001-10116518	20010403
	EP 1383906	A2	20040128	EP 2002-719983	20020306
	US 2003049803	A1	20030313	US 2002-114073	20020403
	US 2003054503	A1	20030320	US 2002-114043	20020403
	US 2003059903	A1	20030327	US 2002-114048	20020403
PRAI	DE 2001-10116518	A	20010403		
	US 2001-283384P	P	20010413		
	WO 2002-EP2419	W	20020306		

L7 ANSWER 16 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:736394 CAPLUS

TI Cloning of 1- and 6-phosphofructokinase genes from Coryneform bacteria and their attenuation for increasing yields of L-lysine in fermn.

IN Farwick, Mike; Bathe, Brigitte; Brehme, Jennifer; Huthmacher, Klaus

PA Degussa A.-G., Germany

SO PCT Int. Appl., 47 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2002074944	A1	20020926	WO 2002-EP2830	20020314
	DE 10112992	A1	20020926	DE 2001-10112992	20010317
	US 2003092137	A1	20030515	US 2002-98626	20020318
PRAI	DE 2001-10112992	A	20010317		

L7 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:276126 CAPLUS

TI Process for the fermentative preparation of D-pantothenic acid using coryneform bacteria with poxB gene being eliminated

IN Dusch, Nicole; Hermann, Thomas; Thierbach, Georg

PA Degussa A.-G., Germany

SO PCT Int. Appl., 46 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2002029020	A1	20020411	WO 2001-EP10212	20010905
	DE 10117085	A1	20020411	DE 2001-10117085	20010406
	AU 2001091825	A5	20020415	AU 2001-91825	20010905
	EP 1320586	A1	20030625	EP 2001-972003	20010905
	US 2002150999	A1	20021017	US 2001-965825	20011001
PRAI	DE 2000-10048604	A	20000930		
	DE 2001-10117085	A	20010406		
	DE 2000-10047142	A	20000923		
	WO 2001-EP10212	W	20010905		

L7 ANSWER 18 OF 33 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:713591 CAPLUS

TI Process for the fermentative preparation of L-amino acids in coryneform bacteria with amplification of the gnd gene

IN Dunicau, L. K.; McCormack, Ashling; Stapelton, Cliona; Burke, Kevin; Moeckel, Bettina

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2001071012	A1	20010927	WO 2000-EP6299	20000705
	EP 1179076	A1	20020213	EP 2000-951336	20000705
	BR 2000010817	A	20020305	BR 2000-10817	20000705
PRAI	US 2000-531265	A	20000320		
	WO 2000-EP6299	W	20000705		

AB The invention relates to a process for the fermentative prepn. of L-amino acids, in particular L-lysine, L-threonine, L-isoleucine and L-tryptophan, using coryneform bacteria in which at least the gnd gene, which codes for the 6-phosphogluconate dehydrogenase, is amplified, in particular overexpressed. Next steps of the process are concn. of the L-amino acid in the medium or in the cells of the bacteria and isolation of the L-amino acid produced. The gene gnd from Corynebacterium glutamicum was cloned and sequenced, and used in the construction of E. coli - C. glutamicum shuttle vector pEC-T18mob2 and plasmid vector pECgnd. The poxB gene for pyruvate oxidase from C. glutamicum was isolated and sequenced and used in construction of vector for integration mutagenesis. **Effect of overexpression of the gnd gene with simultaneous elimination of the poxB gene on the prepn. of lysine was investigated.**